

FS-FHSS Wireless Congress System

GONSIN®
Delivering Trust & Value



◆ FS-FHSS Wireless Congress System DCS-3024

◆ Congress Terminal DCS-3024C-W/DCS-3024D-W

◆ Basic Functions

- ◆ FS-FHSS frequency selecting-and-hopping technology, with spectrum monitoring and screening functions; support intelligent hopping of carrier frequency, and can automatically select a clean frequency point when speaking every time
- ◆ Adopt fully-digital wireless communication technology, anti-interference, anti-multipath fading, not affected by light and infrared, and can be used stably in WLAN environment
- ◆ Each terminal has unique unit ID; support assign unit ID automatically or manually to ensure that multiple terminals in the same environment do not interfere with each other
- ◆ Adopt internal CRC check, audio and data are transmitted with 32-bit encrypted words to ensure the privacy of communication and avoid eavesdropping and malicious interference
- ◆ It can adjust the sensitivity of the conference terminal (0~3 levels), and adjust the best effect according to the on-site situation
- ◆ Microphone modes: AUTO , FIFO and VOX
- ◆ VOX function: in VOX mode, the microphone will be activated automatically when the user speaks; VOX sensitivity can be adjusted (L0~L2), and can be set auto-off time
- ◆ Number of speakers: The number of conference terminals that can be turned on at the same time is 4 (including 1 chairman terminal + 3 delegate terminals). The server supports two WAP cascading, which can achieve a maximum number of speakers of 8, and supports multi-chairman and vice-chairman settings
- ◆ The conference terminals support one-key shutdown, one-key sleep, and one-key wake-up functions, effectively reducing conference workload
- ◆ Optional HD video camera tracking matrix, switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- ◆ Microphone with on status indicator light ring, pluggable dual flexible gooseneck microphone, standard length 410mm, various lengths available
- ◆ The microphone adopts 14mm PDM digital microphone core, 48K sampling, non compressed pi / 4 DQPSK + GFSK digital modulation technology
- ◆ With multiplexed terminal speech button, short press to turn on/off the microphone, long press to turn on/off the terminal, with indicator light ring



Wireless discussion delegate terminal
DCS-3024D-W

- ◆ With three color LED indicator, it indicates the communication status of microphone and battery power status
- ◆ Removable rechargeable lithium battery, continuous on time of 10 hours, support micro USB charging and charging box centralized charging
- ◆ With 3.5mm earphone socket and recording interface, built-in high fidelity speaker (depending on version), volume adjustable

The chairman terminal has the exclusive functions:

- ◆ The chairman terminal can be free to turn on, and is not limited by the number of terminals turned on
- ◆ The chairman terminal has the priority button to turn off the speaking delegate terminal

Technical Indicators

Color	Silvery/Black
Transmission technology	FS-FHSS selection frequency hopping, pi/4 DQPSK+GFSK digital modulation mediation
Encryption technology	32-bit encryption
Working frequency	ISM International Licensed Frequency Band
Audio frequency response	20Hz ~ 20KHz
Sensitivity	-24 ±3 dBFs/Pa
Equivalent noise level	-87.6 dBFs
Maximum sound pressure level	120dB (THD<3%)
Total harmonic distortion	<0.05%
Signal to noise ratio	>96dBA
Microphone type	φ14mm PDM digital microphone core
Directional	0°/180°
Pole length	410mm (standard, with 310mm / 510mm length options)
Earphone Output interface	3.5 mm jack
Recording output interface	3.5 mm jack
Headset load	>16Ω
Headphone volume	10mW
Built in speaker (version dependent)	2W/8Ω
Rated voltage	3.7V
Maximum power consumption	<1.2W
Battery capacity	2600mAH
Consecutive battery use time	10 hours (depend on the different versions of the microphone)
Dimension (L×W×H)	141mm×161mm×53mm
Weight	0.58Kg (overall unit)
working temperature	0~45 ℃
Storage temperature	-20~50 ℃



Wireless discussion chairman terminal
DCS-3024C-W

◆ Congress Server GONSIN30000S



◆ Basic Functions

- ◆ Based on LINUX operating system platform, built-in DSP digital audio processor, with howling suppression function
- ◆ High-contrast OLED screen to display the current status of the system and provide a multi-language setting menu such as Chinese/English
- ◆ FS-FHSS frequency selecting-and-hopping technology, with spectrum monitoring and screening functions; support intelligent hopping of carrier frequency, and can automatically select a clean frequency point when speaking every time
- ◆ Adopt fully-digital wireless communication technology, anti-interference, anti-multipath fading, not affected by light and infrared, and can be used stably in WLAN environment
- ◆ Adopt low-distortion, low-latency transmission technology, support 48KHz audio sampling frequency
- ◆ It can adjust the sensitivity of the conference terminal (0~3 levels), and adjust the best effect according to the on-site situation
- ◆ It supports the setting of Host ID and automatically or manually assigning ID to the conference terminals
- ◆ Microphone modes: AUTO , FIFO and VOX
- ◆ VOX function: in VOX mode, the microphone will be activated automatically when the user speaks; VOX sensitivity can be adjusted (L0~L2),and can be set auto-off time
- ◆ Number of speakers: The number of conference terminals that can be turned on at the same time is 4 (including 1 chairman terminal + 3 delegate terminals). The server supports two WAP cascading, which can achieve a maximum number of speakers of 8, and supports multi-chairman and vice-chairman settings
- ◆ The server supports one-key shutdown, one-key sleep, and one-key wake-up functions, effectively reducing conference workload
- ◆ The server provides a USB interface, which can realize the recording function
- ◆ Optional HD video camera tracking matrix, switcher or HD camera, can realize HD automatic camera tracking, supporting preset overall view
- ◆ With the intelligent speech recognition system, the voice transcription function can be realized

TCP / IP connection control mode is adopted between server and control computer, supporting web management function:

- ◆ It can monitor the status of the server in real time, including the number of speakers, speaking mode, connection status, internal core voltage, fault warning and other information of the server
- ◆ Support web settings for speaker number, speaking mode, microphone sensitivity, volume control and other system settings
- ◆ Support viewing version information, support network update and local update
- ◆ It can monitor the status of the microphone in real time, including online status, signal strength, frequency status, remaining battery power and other information
- ◆ Support microphone wake-up, sleep, shutdown and other operations through the Web
- ◆ Support the system operation of unit ID number writing and HD camera tracking setting through Web
- ◆ Support media playing management through Web, built-in MP3 recording and MP3 / FLAC / WAV / AAC playing function, can play recording files and stored audio files

◆ Technical Indicators

Max Capacity	500
Transmission technology	FS-FHSS selection frequency hopping, pi/4 DQPSK+GFSK digital modulation mediation
Encryption technology	32-bit encryption
working frequency	ISM International Licensed Frequency Band
Audio frequency response	20Hz~20KHz

Total harmonic distortion	<0.05%
Signal-to-noise ratio	>96dBA
Channel isolation	>85dB
Dynamic range	>94dB
Power supply	AC100 ~ 240V; 50/60Hz
Communication interface	1 serial RS232 interface, 1 group of Phoenix RS485 interface
Mp3 recording and playing interface	1 USB interface
network interface	4 RJ45 interfaces, support standard POE power supply
Antenna interface	1 BNC interface, support broadcast monitoring
Audio interface	1 balanced audio output (XLR), 1 unbalanced audio output (RCA), 1 line unbalanced audio (RCA) input
Max audio output	LINE OUT: +20 dBu unbalanced, BLANCE OUT: +20 dBu balanced
Output impedance	600Ω
PC communication mode	TCP/IP
Camera control mode	RS-485 /RS-232
Max power consumption	100W
Display	OLED, size: 35mm×18mm
Limitation on the number of speakers	1/2/3+1 chairman terminal, two WAP cascading maximum number of speakers is 8
Video tracking protocol	PELCO-P/PELCO-D/VISCA
Installation	Desktop or 19' cabinet installation
Size	340mm×420mm×45mm (1U)
Weight	4.5kg
Working temperature	0~45 C
Storage temperature	-20~50 C

Charging Case CHG-16

Main Features

- ◆ Battery capacity and charging current management in real time.
- ◆ Charging LED indicator;
- ◆ Reverse polarity protection;
- ◆ Short-circuit protection;

Basic Functions

- ◆ Smart management ensures a safe and reliable battery charging; The real-time management for battery capacity and charging current prolongs battery life;
- ◆ Independent modularized charging circuit provides a battery detection; this circuit does not work if there is no battery inserted;
- ◆ Charging up to 16 batteries at the same time; charging time: 3.5 hours;
- ◆ Red/green charging LED indicator.

Technical Indicators

Power supply	AC100~240V, 50~60Hz
Max. charging voltage	4.2 V
Power	106 W
Charging time	3.5 hours
Weight	6.7 kg (net weight), 7.4 kg (full load)
Dimensions	490mm×320mm×67.5mm
Working temperature	0~45℃
Storage temperature	-20~50℃



Wireless Access Point WAP-30C

Basic Functions

- ◆ FS-FHSS frequency selecting-and-hopping technology, with spectrum monitoring and screening functions, support for intelligent hopping of carrier frequency, and automatically select a clean frequency point when speaking every time
- ◆ Adopt full-digital wireless communication technology, anti-interference, anti-multipath fading, not affected by light and infrared, and can be used stably in WLAN environment
- ◆ Adopt internal CRC check, audio and data are transmitted with 32-bit encrypted words to ensure the privacy of communication and avoid eavesdropping and malicious interference
- ◆ Built-in high-performance communication antenna, stable wireless signal coverage: 30 meters
- ◆ Support two WAP cascading, which can achieve a maximum number of speakers of 8, or expand the coverage area of wireless signals
- ◆ Network port connection, support standard POE and DC power supply
- ◆ With intuitive working status indicator
- ◆ Support wall-mounted / bracket / ceiling / desktop placement of a variety of installation methods, can adapt to the installation environment of various types of venues



Technical Indicators

Color	White
Transmission technology	FS-FHSS selection frequency hopping, pi/4 DQPSK+GFSK digital modulation mediation
Encryption technology	32-bit encryption
Working frequency	ISM International Licensed Frequency Band
Network interface	1 RJ45 interface, support standard POE power supply
Power interface	1 DC interface, support 24V DC power supply
Wireless signal coverage	30 meters (stable communication distance)
size	260mm×260mm×68mm
Weight	1.2Kg
Working temperature	0~45℃
Storage temperature	-20~50℃

Transport Case DCS-16

DCS-16 utilizes all-in-one design, is the multi-function package equipment which is applied in the storage and transport of the DCS-3024 system. It is designed as a flight case with universal wheels. The material of the case is solid, shockproof and crash-proof. It is convenient for users to store, remove and transport the products so that it is suited to the temporary conference and rental market.



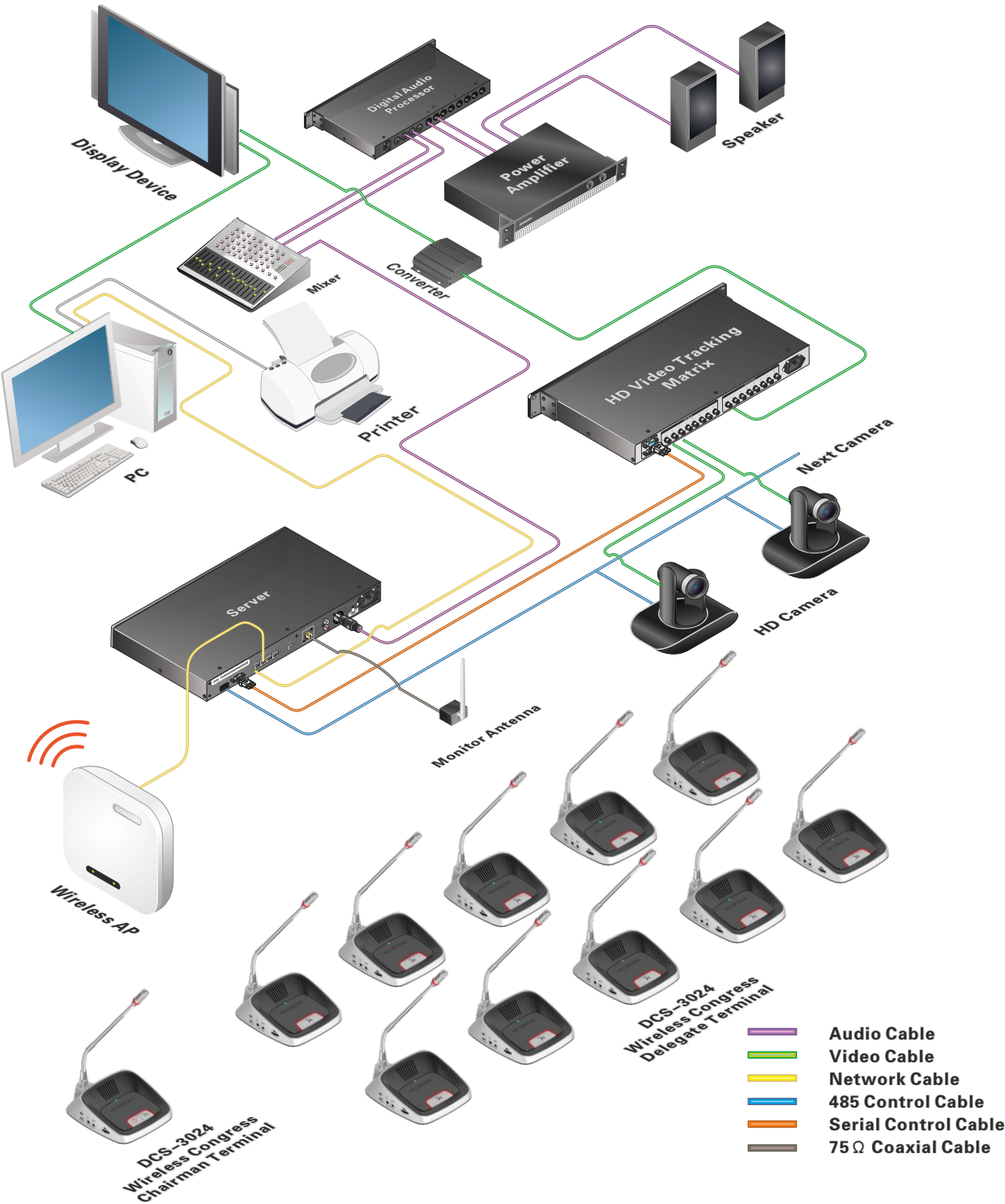
One transport case can contain

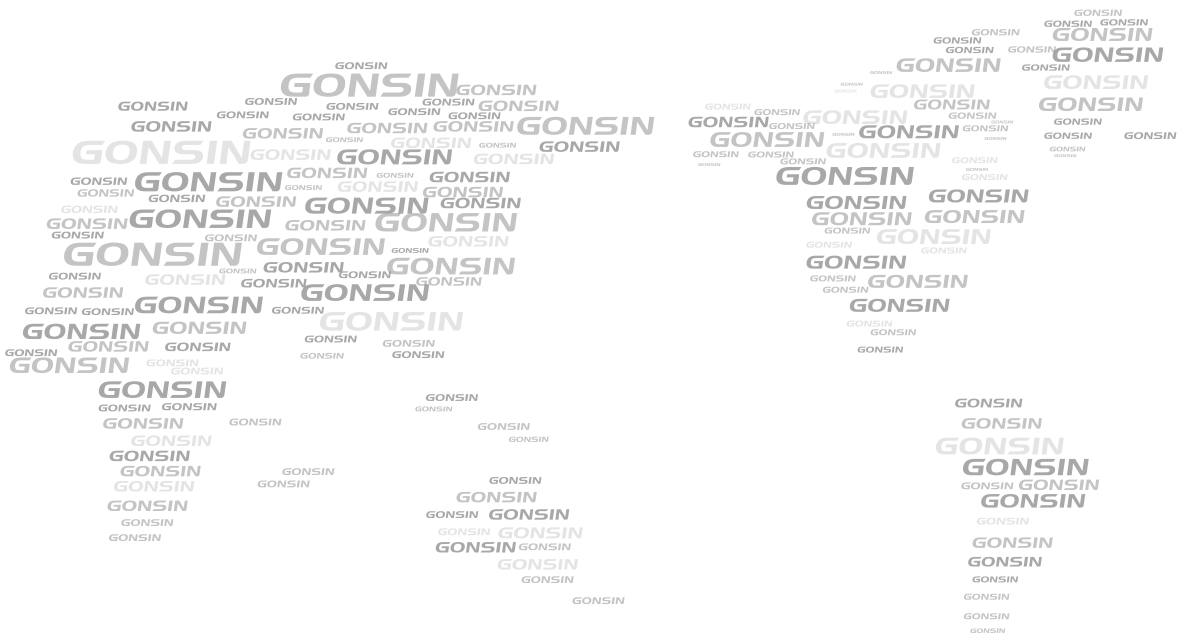
- ◆ One congress server
- ◆ 16 congress terminals
- ◆ 16 microphone stems
- ◆ 2 wireless AP
- ◆ One charging case

Technical Indicators

Universal wheel	4 wheels
Dimensions(LxWxH)	750mmx500mmx800 mm (including universal wheels)
Empty weight	29Kg

System diagram





GONSIN CONFERENCE EQUIPMENT CO.,LTD.
www.gonsin.com



English WeChat



All rights reserved. The information and specifications included are subject to change without prior notice.